AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

AMAX Inc.

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is authorized to discharge from a facility located at Climax, Colorado,

to receiving waters named East Fork, Ten Mile Creek,

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III hereof.

This permit shall become effective on the date of issuance.*

This permit and the authorization to discharge shall expire at midnight. December 31, 1978.

Signed this 31 day of Ducember 1974

→ John A. Green
Regional Administrator

regional Auministrator

New

Thirty (30) days after the date of receipt of this permit by the Applicant.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Furnity the paried limit to improve the first of the permitted is authorized to discharge from outfall(s) serial number(s) #001.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			Monitoring Re	Monitoring Requirements	
	kg/day (!bs/day)		Concentration			
	Daily Avg 🔍	Daily Mox	mg/1 Daily Avg	mg/l Daily Mex	Measurement Frequency	Sample Type
Flow-m ³ /Day (MGD)	, H/A	. II/A	N/A	N/A	Daily or Conti	nuous 2/
Total Suspended Solids	II/A	` nya	N/A	30	Meekly	Grab
Cyanide	A/A	N/A	II/A	0.025	:lonthly	Grab
(ÚĐ	11/1	:5/A	20	30	floathly	Grab
Total Iron	RVA	H/A	1.0	2.0	:lonthly	Grab
Total "angangso	19/0	N/A	0.25	1,0	'ionthly	Grab
Total Zinc	πýΛ	ΠŻΑ	N/A	1.0	2 x Month	Grab
lotal Cadmium	ΝΛ	11/A	0.025	0.1	Quarterly	Grab
Total 'lolybdenum	11//\	N/A	30	1!/A	2 x Month	Grab
Fluoride	N/A	N/Λ	N/A	N/A	Monthly	Beach
Oil ar lease shall no	ot exceed 10	mg/l in any :	single grab sa	riple and sh	all be monitored	!
th a grab sau	ple.		-			1

with a grab sample. 6.0 standard units nor greater than 8.5 standard units and shall be monitored weekly

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): See Part III, anotion G.

Weir, flume or other accepted instrument or technique

A. EFFLUENT LIMITATIONS AND MONITORING LOGICIREMENTS (Continued)

2. During the period beginning July 1, 1975 and lasting through June 30, 1977, the permittee is authorized to discharge from outfall(s) serial number(s) #001. 1/

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge * imitations				Monit tring Requirements		
	kg/day (lbs/day)		Concentration				
	Daily Avg	Daily Max	mg/1 Daily Avg	mg/l Daily Max	Measurement Frequency	Sample Type	
Flow-m ³ /Day (MGD)	A/E	N/A	R/A	A/K	Daily or Continuou		
Total Suspended Solids	:I/A	N/A	N/A	25	Weekly	Grab	
Total !!olybdenum	N/A	N/Λ	30	N/A	2 x Month	Grab	
Total Iron	N/A	N/A	1.0	2.0	- Ilonthly	Grab	
Total Zinc	N/A	N/A	N/A	1.0	2 x Month	Grab	
Total 'langanese	#/A	N/Λ	0.25	1.0	lionthly	Grab	
Total Cadm'	N/A	N/A	0.025	0.1	Quarterly	Grab	
Cyanide	N/A	N/A	N/A	0.025	fionthly	Grab	
COD	:://\	rva -	20	30 -	Monthly	ີ່ ທີ່ ທີ່	
Fluoride	N/A	N/A	N/A	N/A	Monthly	Grab	

The oil and grease shall not exceed 10 mg/l in any single grab sample and shall be sampled, monthly with a grab sample.

The pH shall not be less than 6.0 standard units nor greater than 8.5 standard units and shall be monitored weekly with a grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): See Part III, Section G.

2/ Heir, flume or other accepted instrument or technique.

^{1/} The above requirements and limitations shall be supercoded by the requirements and limitations specified in Part I, Section A. 3., during periods of purge as defined in Part III. Section E.

5. During the period beginning on the issuance late of this permit rasting through June 50, 1977, but only during periods of purge as described and limited in Part III, Section E of this permit, the permittee is authorized to discharge from outfall serial number 001.

Such purge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Liminations				Monito a Requirements		
	kg/day (lbs/day)		Concentration				
•	Daily Avg 👢	Daily Max	mg/l Daily Avg	mg/l Daily Max	Measurement Frequency	Sample Type	
Flow-m ² /Day (MGD)	N/A	N/A	N/A	N/A	Daily or Continue	ous 1/	
Total Suspended Solids		N/A	150	200	Twice Weekly	Grab	
Cyanide	N/A	N/A	N/A	0.5	Twice Weekly	Grab	
COD .	N/A.	N/A	• 30	50	Weekly	Grab	
Total Iron	II/A.	R/A	n/A	15	Weekly	Grab	
Total Manganese	ti/A	£ŻA	M/A	5	Meckly	Grab	
Total Zinc	N/A	N/A	N/A	1.0	Weekly	Grab	
Fluoride	R/A	N/A	N/A	N/A	Monthly	Grab	
Total Holybuenan	WA.	R/A	ii/A	ii/A	Neckly	Grab	

The oil and grease shall not exceed 10 mg/l in any single grab sample and shall be sampled weekly with a grab sample.

The pH shall not be less than 6.0 standard units nor greater than 8.5 standard units and shall be monitored twice weekly with a grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): See Part III, Section G.

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I/ deir, flume or other accepted instrument or technique.

- A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Continued)
- 4. During the period beginning July 1, 1977, and lasting through December 31, 1978, the permittee is authorized to discharge from outfall serial number 001, subject to additional conditions of Part III, Section H.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent (Characteri	stic
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Discharge ... ications

has toring Requirements

	Mass		Concentration			
	Kg/day(lbs/day) Daily Avg.	Kg/day(lbs/day) Daily Max.	mg/l Daily Avg.	mg/l Daily Max.	Measurement Frequency	Sample Type
Flow - m ³ /Day (MGD) Total Suspended Solids Total Molybdenum Total Iron Total Zinc Total Hanganese Total Cadmium Cyanide COD Fluoride Total Copper Total Lead	N/A N/A 182(400) N/A N/A N/A N/A N/A N/A N/A	44028 (11.6) ² / N/A 454(1,000) N/A 21.0 (43.1) N/A 0.63 (1.4) 1.1 (2.4) N/A N/A 2.2 (4.8) 4.4 (9.7)	N/A N/A N/A N/A 11/A 0.25 N/A N/A N/A	N/A 25 N/A 2.0 0.5 1.0 0.015 0.025 30 N/A 0.05	Daily/Continuous Weekly Weekly Monthly Biweekly Monthly Quarterly biweekly Monthly Monthly Monthly	1/ Grab Grab Grab Grab Grab Grab Grab Grab
	144	7.7 (3.7)	:9 A	ŭ. ì	Honthly	irab

Oil and grease shall not exceed 10 mg/l in a single grab sample and shall be monitored monthly with a grab sample.

The pH shall not be less than 6.0 standard units nor greater than 8.5 standard units and shall be monitored daily with a grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

In addition to the above limitations, total annual discharge of molybdenum shall not exceed 14,075 Kg/yr (31,000 lbs/yr).

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): See Part III, Section G.

1/ Weir, flume or other accepted instrument or technique.

/ Additional limitations on flow, Fart III, Section H

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B. SCHEDULE OF COMPLIANCE

- The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:
 - (a) Interceptor canals shall be completed and operational no later than the dates indicated in the following schedule:

(1) (2) (3) (4) (5)	Chalk Mountain i	July 1, 1975
(2)	East Interceptor	December 31, 1976
(3)	West Interceptor	July 1, 1976
(4)	Clinton Interceptor	December 31, 1976
(5)	All other diversions	December 31, 1976

- (b) Progress reports on the construction and operation of diversion structures shall be submitted to the permit issuing authority semi-annually. The first report shall be due on February 1, 1975.
- 2. Sollowing completion of the studies required under Part III, Section A: the permittee shall submit to the permit issuing authority no later than July 1, 1975, an implementation plan for an abatement program designed to achieve the effluent limitations specified in this permit for discharge from outfall(s) #001. The implementation plan shall consist of an outline of intended design, construction and operation, including a compliance schedule setting forth the dates by which compliance with the effluent limitations will be reached. The compliance schedule shall include, where appropriate, dates to accomplish the following:
 - (a) completion of preliminary plans

(b) completion of final plans

(c) award of contract(s)

(d) commencement of construction

(e) completion of major construction phases

(f) completion of all construction

(g) attainment of operational level no later than July 1, 1977

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B. SCHEDULE OF COMPLIANCE (Continued)

Upon approval of the implementation plan by the permit issuing authority, the schedule of compliance shall become conditions of this permit.

3. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

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C. MONITOKING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the mountained discharge.

2. Reporting

Monitoring results obtained during the previous 3 months shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on April, 28, 1975. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the State at the following addresses:

U.S. Environmental Protection Agency fuite 900, 1860 Lincoln Street Benver, Colorado 80203 Attention: Enforcement - Permits State of Colorado Department of Health Nater Quality Control Division 4210 East 11th Avenue Denver, Colorado 80220

3. I refinition:

- a. The blaily average believes means the total discharge by weight during a calendar month divided by the number of days in the month that the discharge was flowing. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
- b. The "daily maximum" discharge means the total discharge by weight during any calendar day. (See CONTINGATION next page)

4. Test Procedures

Test procedures for the analysis of poll-tants shall conform to regulations published pursuant to Section 204(g) of the Act, under which such procedures may be required.

5. Recording of Results

For each measurement or sample taken parsuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed:
- e. The person(s) who performed the coaleses;

- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. Auditional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently man required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Leport Form (EPA No. 3220-1). Such increased frequency shall also be indicated.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer it requested by the Regional Arministrator or the State water pollution control agency.

CONTINUATION

3. Definitions (continued)

b. (continued)

Inis limitation shall be determined by the analyses of a properly preserved composite sample composed of a minimum of four (4) grab samples collected at equally spaced two (2) hour intervals and proportioned according to flow at the time of sampling.

- c. The "daily average" concentration means the average concentration during a calendar month. There less than daily sampling is required by this permit, the average concentration shall be determined by the summation of all measured daily samples divided by the number of days during the calendar month when the measurements were made.
- d. The "daily maximum" concentration shall be determined by the analysis of a properly preserved composite sample composed of a minimum of four (4) grab samples collected at equally spaced two (2) hour intervals and proportioned according to flow at the time of sampling.

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3. Definitions (continued)

- e. "Not" value, noted under Effluent Characteristics are collected on the basis of the net increase of the individual percenter over the quantity of that same parameter present in the intake water measured prior to any contamination or use in the process of this facility. Any contaminants contained in any intake water obtained from underground wells shall not be adjusted for as described above and therefore shall be considered as process input to the final effluent. Limitations in which "net" is not noted are calculated on the basis of gross measurements, of each parameter in the discharge irrespective of the quantity or quality of those parameters in the intake waters.
- f. A "composite" sample, for monitoring requirements, is defined as a minimum of four (4) grab samples collected at equally spaced two (2) hour intervals and proportioned according to flow.
- g. The "annual total" discharge means the discharge by weight during any calendar year. The annual total discharge shall be determined by the summation of the monthly discharges by weight for any calendar year. The monthly discharge shall be determined by multiplying the daily average (definition 3.a.) discharge times the number of days of the month a discharge existed. An entire calendar year's data need not be utilized for the purpose of a violation determination if the annual total is exceeded in a shorter period of time.
- h. A "7-day composite" shall be defined as a minimum of daily grab samples collected for a seven day period. Continuous automatic sampling is also acceptable.

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A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The decharge of any pollutant identified in this permit more frequently then or at a level accross of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production mereases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes, I ollowing such notice, the permit may be modified to specify and limit any pollutants not previously limited:

.2. Noncompliance Notification

It, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Regional Administrator and the State with the following information, in writing, within five (5) days of becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anatomated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times mair tain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the term and conditions of this permit.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any enduent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine them the and impact of the noncomplying discharge,

5. Remarks (See additional requirements under PART III)

Any diversion from or hypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or random would character to Leilites necessary for compliance with the effluent limitation and polarities, set the permit. The permittee shall promptly notify the Regional Administration and the State in writing of or disturbed for hypers.

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6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

7. Power Fadures

. In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the westewater control facilities;

or, if such alternative power source is not in existence, and no date for its implementation appears in Part I,

 Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

B. RESPONSIBILITIES

1. Hight of Patry

The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and for their authorized representatives, upon the presentation of coedentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutant.

2. Transfer of Owdership or Control

In the event of any change in control or ownership of facilities from which the authorized 'discharges connucte, the permittee scali notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Re; ional Administrator and the State water poliction control agency.

3. Availability of Reports

Propertion data determined to be confidential under Section 308 of the Act, all renows prepared in accordance with the terms of this permit shall be available for rabber

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inspection at the offices of the State water pollution control agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal pen director approvided for in Section 309 of the Act.

... Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during it; term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the cuthorized discharge.

5. To.cic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any material to of compliance specified in such effluent standard or prohibition) is estable ted under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittees o notified.

6. Call and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II, A-5) and "Power F: ilures" (Part II, A-7), nothing in this permit shall be construed to relieve the permitter from civil or criminal penalties for noncompliance.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construct to produce the institution of any legid action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

S. State Lows

Nothing in this permit shall be construed to proclude the institution of any legal action or related the permittee from any responsibilities, liabilities, or penalties established per mand to may applicable thate law or regulation under authority preserved by Section 510 of the Act.

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9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART III

OTHER REQUIREMENTS

A. Militional Study

- 1. The permittee shall initiate and perform a study to determine methods to be employed to achieve the effluent limitation specified for discharge in Part I, Section A. 4.
- 2. The study shall include the following:
 - (a) A complete system water balance.
 - (b) A pilot program on ion exchange removal of Molybdonum and other metals from process wastewaters.
- 3. The permittee shall carry out the study in a manner which will result in a progress report on pilot plant operation by April 1, 1975, and a report on full scale feasibility and design by July 1, 1975.

PART III MI

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OTHER REQUIREMENTS (Continued)

- 1. Reports required above shall be submitted to the parties and addresses noted in Part 1, Section C. 2., of this permit.
- B. Additional Effluent Limitations

There shall be no discharge of pollutants into the East Fork Eagle River, the East Fork Arkansas River or tributaries thereto from the permittee's facility.

C. Exclusions

All point source discharges carrying runoff or snowmelt that are unaffected by disturbed areas within the permittee's facility and contains no process wastewaters shall be excluded from the effluent limitations and monitoring requirements of Part I, Section A.

Disturbed areas shall be defined as the areas disturbed by the permittee's operations including, but not limited to areas from which overburden has been removed, or on which it has been deposited, ore stockpile areas, milling and auxiliary facilities, tailings deposition areas and all other nonpublic areas or facilities.

D. Additional Requirements

The permittee shall maintain and operate all interceptor ditches and canals and other diversions in accordance with Part II, Section A. (3) of this permit.

- E. Purge Natification and Operation
 - 1. The permittee shall notify the permit issuing authority a minimum of twenty-four (24) hours prior to the initiation of a purge from the tailings pond. The purge shall be necessitated solely from excess water in the system resulting during spring snowmelt. Any other excessive dis-

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OTHER REQUIREMENTS (Continued)

charge shall be considered a bypass and shall be covered by the conditions specified in Part II, Section A. 5., and Part III, Section 3.

The permittee shall notify the permit issuing authority within seven (7) days following the termination of a purge from the tailings pond.

A purge shall be defined as a volume of water of 1,000 acre-feet or more in less than 60 consecutive days, or a proportional quantity for periods of less than 60 consecutive days.

- 2. The permittee shall take all reasonable steps to minimize the impact of any purge on the receiving water or waters to which the receiving water is tributary, including the following:
 - Coordination of the purge with natural stream flows in order to maximize dilution.
 - b. Hinimize the total volume and pollutant load of the purce through regulation and drawdown of industrial water supply storage reservoirs prior to the anticipated snowmelt and runoff period.
- 3. The permittee shall not purge in excess of 60 days per calendar year except where unavoidable to prevent loss of life or severe property damage.
- 4. Effective July 1, 1977, the permittee shall not purge wastewaters through discharge serial number 001.
- F. Additional Bypassing Requirements

If, for other reasons, a partial or complete bypass is considered necessary, a request for such bypass shall be submitted to the State of Colorado and to the Environmental Protection Agency at least six'y (60) days prior to the proposed bypass. If the proposed bypass is judged acceptable by the State of Colorado and by the Environmental Protection Agency, the bypass will be allowed subject to limitations imposed by the State of Colorado and the Environmental Protection Agency.

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OTHER REQUIREMENTS (Continued)

If, after review and consideration, the proposed bypass is determined to be unacceptable by the State of Colorado and the Environmental Protection Agency, or if limitations imposed on an approved hypass are violated, such bypass shall be considered a violation of this permit; and the fact that application was made, or that a partial bypass was approved, shall not be a defense to any action brought thereunder.

G. Monitoring Location

Samples taken for compliance with the monitoring requirements and effluent limitations specified in Part I, Section A, shall be taken at the nearest point downstream from the final seepage and lateral drain collection pond (clearwater pond) and upstream from any diluent waters from undisturbed areas or admixture with the receiving stream.

Flow may be measured using the existing Parshall flume.

Notification by the permittee is required within fourteen (14) days of any change in the location of the authorized discharge point, 001. Such notification shall be made to the permit i suing authority and shall be accompanied by a detailed man showing the new location.

H. Discharge Flow Restrictions

Effective no later than July 1. 1977, the relationship between the discharge rate from outrall 001 and the rate of flow in Ten Hile Creek, as measured immediately below the confluence of the East and West interceptors and the original creek bed, shall conform to the values shown below.

Maximum Discharge Rate	Stream Flow in		
Outfall 001-CFS	Ten Mile Creek-CF		
0	Less than 5.0		
1.0	5.0 - 12.5		
2.5.	12.5 - 25.0		
5.0	25.0 - 50.0		
10	50.0 - 75.0		
15	75.0 - 168		
18	Greater than 168		

The permittee shall measure discharge ONI flow rate and Ten Tille Creek stream flow rate continuously during discharge and report such data in accordance with conditions in Part I, Section C of this permit.